

Title (en)
P2X4 RECEPTOR ANTAGONIST

Title (de)
P2X4-REZEPTOR-ANTAGONISTEN

Title (fr)
ANTAGONISTE DES RÉCEPTEURS P2X4

Publication
EP 2803662 B1 20170301 (EN)

Application
EP 13736295 A 20130110

Priority
• JP 2012005343 A 20120113
• JP 2013050320 W 20130110

Abstract (en)
[origin: EP2803662A1] The present invention relates to a diazepine derivative represented by the following general formula (I) (in the formula, R 1 and R 2 represent hydrogen atom and the like, or R 1 and R 2 bind together to form a naphthalene ring and the like together with the benzene ring to which they bind, R 3 and R 4 represent hydrogen atom and the like, R 5 represents hydrogen atom and the like, R 6 and R 7 represent hydrogen atom and the like, X represents C, CH or N, Y represents N, NH or C(=O), provided that when X is N, Y is not N or NH, and when X is C or CH, Y is not C(=O), Z represents oxygen atom or sulfur atom, A represents benzene ring and the like, B represents NHC(=O) and the like, D represents an atomic bond and the like, E represents an atomic bond and the like, G represents benzene which may be substituted and the like, and m represents an integer of 0 to 5) or a pharmacologically acceptable salt thereof, and a P2X4 receptor antagonist.

IPC 8 full level
C07D 243/12 (2006.01); **A61K 31/551** (2006.01); **A61K 31/5513** (2006.01); **A61P 25/04** (2006.01); **A61P 43/00** (2006.01); **C07D 401/12** (2006.01); **C07D 403/12** (2006.01); **C07D 405/12** (2006.01); **C07D 409/12** (2006.01)

CPC (source: CN EP KR US)
A61K 31/551 (2013.01 - KR); **A61K 31/5513** (2013.01 - KR); **A61P 25/02** (2017.12 - KR); **A61P 25/04** (2017.12 - EP); **A61P 29/00** (2017.12 - EP KR); **A61P 43/00** (2017.12 - EP); **C07D 243/10** (2013.01 - EP US); **C07D 243/12** (2013.01 - CN EP KR US); **C07D 243/24** (2013.01 - KR); **C07D 401/04** (2013.01 - EP KR US); **C07D 401/12** (2013.01 - CN EP KR US); **C07D 403/12** (2013.01 - CN EP KR US); **C07D 405/12** (2013.01 - CN EP KR US); **C07D 409/12** (2013.01 - CN EP KR US); **C07D 413/12** (2013.01 - EP KR US); **C07D 471/04** (2013.01 - EP KR US)

Citation (examination)
WO 2004041258 A2 20040521 - NEURO3D [FR], et al

Cited by
EP3848051A4; EP3020707A4; EP3449942A4; AU2017255086B2; WO2021198745A1; US10952978B2; US11918589B2; US10738035B2; US10150744B2; US10472333B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2803662 A1 20141119; EP 2803662 A4 20150603; EP 2803662 B1 20170301; AU 2013208536 A1 20140821; AU 2013208536 B2 20170720; CA 2861024 A1 20130718; CA 2861024 C 20200922; CN 104066724 A 20140924; CN 104066724 B 20200417; CN 108863959 A 20181123; CN 108863959 B 20211130; CN 110483423 A 20191122; CN 111333588 A 20200626; DK 2803662 T3 20170501; ES 2626036 T3 20170721; HK 1203191 A1 20151023; IL 233592 A0 20140831; IL 233592 B 20180830; JP 6207399 B2 20171004; JP WO2013105608 A1 20150511; KR 102092147 B1 20200323; KR 102140746 B1 20200804; KR 20140116926 A 20141006; KR 20200032762 A 20200326; NZ 627878 A 20160331; PL 2803662 T3 20170929; PT 2803662 T 20170405; SG 10201605325T A 20160830; SG 11201404030Y A 20141030; US 10633349 B2 20200428; US 11434207 B2 20220906; US 2014357858 A1 20141204; US 2016280667 A1 20160929; US 2018201587 A1 20180719; US 2020223806 A1 20200716; US 2022380322 A1 20221201; US 9382236 B2 20160705; US 9969700 B2 20180515; WO 2013105608 A1 20130718

DOCDB simple family (application)
EP 13736295 A 20130110; AU 2013208536 A 20130110; CA 2861024 A 20130110; CN 201380005473 A 20130110; CN 201810753396 A 20130110; CN 201910768337 A 20130110; CN 202010213899 A 20130110; DK 13736295 T 20130110; ES 13736295 T 20130110; HK 15103643 A 20150415; IL 23359214 A 20140710; JP 2013050320 W 20130110; JP 2013553310 A 20130110; KR 20147022599 A 20130110; KR 20207007764 A 20130110; NZ 62787813 A 20130110; PL 13736295 T 20130110; PT 13736295 T 20130110; SG 10201605325T A 20130110; SG 11201404030Y A 20130110; US 201314371868 A 20130110; US 201615176857 A 20160608; US 201815923685 A 20180316; US 202016826877 A 20200323; US 202217871201 A 20220722